

# JTC 3 – Briefing Note for Kick Off Meeting

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## Kick Off Meeting Agenda

1. Member introductions
2. Suggestions of people from other regions
3. Review of each International organization’s work on Education and Training
4. Discussion of potential Committee Activities
5. Establish meeting times – virtually and at upcoming conferences
6. Other items

## Current JTC3 Committee

<b>JTC3 membership 2024 to 2027</b>			
<b>Chair:</b>			
D. Jean Hutchinson	Professor, Queen's University	Canada	<a href="mailto:hutchinj@queensu.ca">hutchinj@queensu.ca</a>
<b>IGS:</b>			
Natália Correia	Professor, Federal University of Sao Carlos	Brazil	<a href="mailto:nati.correia@gmail.com">nati.correia@gmail.com</a> <a href="mailto:ncorreia@ufscar.br">ncorreia@ufscar.br</a>
2			
3			
<b>ISRM :</b>			
Tatiana Rotonda	Professor, Sapienza Universita di Roma	Italy	tatiana.rotonda@uniroma1.it
Vojkan Jovičić	Director, Inštitut za rudarstvo	Slovenia	Vojkan.Jovicic@irgo.si
Ki-Bok Min	Professor, Seoul National University	South Korea	kbmin@snu.ac.kr
<b>IAEG:</b>			
Vassilis Marinos	School of Civil Engineering - Geotechnical Department, National Technical University of Athens (NTUA)	Greece	marinosv@civil.ntua.gr
Ranjan Kumar Dahal	Central Department of Geology, Tribhuvan University, Kirtipur, Kathmandu	Nepal	rkdahal@gmail.com
Kuroschi Thuro	Department for Civil and Environmental Engineering, Technical University of Munich	Germany	thuro@tum.de
<b>ISSMFGE:</b>			
Gretchen Bohnhoff		USA	bohnhoffg@uwplatt.edu
Michele Calvello		Italy	Michele.Calvello@gmail.com
António Topa Gomes		Portugal	atgomes@fe.up.pt

*Please note: 6 additional members may be added.*

*Please see Appendix C for a list of previous JTC3 Chairs and Members.*

## JTC3 – Goal

JTC3 is a Joint Technical Committee on education and training of the Federation of International Geo-engineering Societies (FedIGS) representing the International Society for Rock Mechanics (ISRM) , International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) , International Association for Engineering Geology and the Environment (IAEG) , and International Geosynthetics Society (IGS).

The goal of JTC3 is to contribute to broad cooperation between international geo-engineering societies and their members in teaching, training and outreach facilities. JTC3 supports education (institution educators, graduate and undergraduate students) and industry.

## JTC3 – Proposed Activities for 2024 to 2028

*Please see Appendix B for Previous Committees' Terms of Reference and Activities.*

*The KickOff meeting will be focused on defining our Objectives and Activities.*

## Current web presence

<https://isrm.net/page/show/705>

<https://www.geoengineer.org/news/joint-technical-committee-on-education-jtc3>

Link to JTC3 web page is not functional

## Previously Developed JTC3 Materials

A list of publications is supplied in Appendix A.

### **Missing:**

Referenced at: Geoengineer.org <https://www.geoengineer.org/news/joint-technical-committee-on-education-jtc3>

Article 2017 – JTC3 – set of case histories with 25 slides each – article by then Chair of JTC3 - Prof. Anna Shidlovskaya, PhD, DE

At least two conferences on Education and Training – does anyone have access to these?

## Appendix A: Previous JTC3 Publications

*Please note that there are likely to be other reports, which I do not have access to. If any of you do, please forward them to me, so I can create a full repository of documents. Thanks.*

VanDine, D.F. 2016. What is a Geotechnical Professional? Keynote Lecture: NGM 2016, IGS - Reykjavik. 43-52.

Oliveira, R. 2009. Geo-Engineering Education and Training. The Past and the Future. Soils and Rocks, São Paulo, 32(1): 31-38, January-April, 2009.

Shidlovskaya, A., and Briaud, J.-L. 2016. Modern syllabus for introduction to Geotechnical Engineering. SFGE 2016 - Shaping the Future of Geotechnical Education, International Conference on Geo-Engineering Education – TC 306, 20-21 October, Belo Horizonte, Minas Gerais, Brazil.

Turner, A.K., and Rengers, N. 2010. A Report Proposing the Adaptation of the ASCE Body of Knowledge Competency-based Approach to the Assessment of Education and Training Needs in Geo-Engineering. JTC3 Progress Report. Jan 4, 2010.

Turner, A.K. 2011. The role of competency-oriented descriptions in geo-engineering. 2011 Pan-Am CGS Geotechnical Conference. - Geo-Innovation Addressing Global Challenges, Toronto, Canada. 6 pages.

Villeneuve, M.C., Zimmer, V.L., Eggers, M.J., Bell, D.H., Davies, T.R. and Pettinga, J.R. Engineering geology education for the 21<sup>st</sup> century. 9 pages.

## Appendix B: Previous JTC3 Committee's Terms of Reference

### 2005:

1. Discussing, developing and advancing the university education and professional training in the three geo-engineering disciplines; to address issues referred to it by the Presidents of the Sister Societies including solving thematic and practical questions or studying widespread problems in the broad field of education and training.
2. Encouraging the collaboration of those who practice in education and training in the geoengineering disciplines.
3. Fostering and organizing Conferences, Symposia and Workshops.
4. Contributing to the International Congresses of ISSMGE, IAEG, and ISRM.
5. Fostering the exchange and spreading of knowledge about education and training in the geo-engineering disciplines as available from sources of the most current technical information in their fields of expertise.
6. Fostering the organization of training schools and preparation of guidelines and training packages.
7. Maintaining a website to spread the knowledge in the JTC to the individual members of the ISSMGE, IAEG, and ISRM.
8. Elaboration and maintenance of a State of the Art Report on Education and training in Engineering Geology (EG), Soil Mechanics (SM) and Rock Mechanics (RM).
9. Preparation of Guidelines and Suggestions for University Educational Programs in the Geoengineering disciplines (EG, SM and RM).

### SHIDLOVSKAYA, A. (2016)

1. To promote the exchange of information on the courses and their content that are taught on geotechnical engineering/engineering geology/rocks mechanics/geosynthetics in different institutions
2. To develop a list of recommended textbooks on geotechnical engineering/engineering geology/rocks mechanics/geosynthetics
3. To develop a list of the refereed journals on geotechnical engineering/engineering geology/rocks mechanics/geosynthetics
4. To inform the members about international conferences on geo-engineering education
5. To present information on the history of geo-engineering schools (engineering geology, geotechnical engineering, soil and rock mechanics, geosynthetics) in the world – request to international societies and institutions
6. To establish an educator award for FedIGS member institutions (the Jean-Louis Briaud Award) which recognizes excellence in educational services to the FedIGS community
7. Information on outreach activities for students and teachers regarding careers
8. To cooperate with employers on the efficiency of geo-engineering education in practice
9. To interact with all technical committees of FedIGS to prepare lecture notes, PowerPoint slides, photos, videos, questions and answers on geo-engineering
10. To develop the electronic interaction between the committees

## **2020**

1. To promote the exchange of information on the courses and their content that are taught on geotechnical engineering, engineering geology, rocks mechanics, and/or geosynthetics in different institutions
2. To closely interact with the related technical committees of ISSMGE, ISRM, IAEG, and IGS
3. To develop a list of recommended virtual/digital materials to be used for education and professional trainings, considering the current COVID-19 situation

### **Other materials:**

#### **IAEG – 2014 – Commission 4 – Education and Training**

1. Collect information of the different kinds of education and training courses that are currently available around the world.
2. Network with practitioners and academics with an interest in this subject and develop a team of active participants in Commission 4.
3. Develop and maintain a dedicated area within the IAEG web site where information on available education and training courses can be lodged by course providers and accessed by potential course attendees.
4. Establish the needs of end users.
5. Define a variety of typical curricula for course providers to consider when developing new courses.
6. Communicate progress via IAEG web site and Council meetings.
7. Prepare a 10 year plan to promote education and training in engineering geology

#### **Activities and ideas: SHIDLOVSKAYA, A. (2016)**

- Discuss the web site content with members
- Improve, complete, enhance the book list
- Improve, complete, enhance the videos list
- Improve, complete, enhance the journals list
- Contribute to the success of ISSMGE, ISRM, IAEG, IGS conferences on education
- Develop recommendations for modern curriculum in geoengineering
- Develop list of internship opportunities for students
- Develop list of research needs for young professors and practitioners to cooperate
- Propose a state of the practice and state of the art series
- Reach out to practitioners for their influence on education

## Appendix C: Previous JTC3 Committees

### **2006-2009:**

Chair: Luis González de Vallejo (Spain)

ISSMGE: Prof. Mark Jaksa (Australia), Prof. Waldemar Hachich (Brazil), Prof. Iacint Manoliu (Romania)

ISRM: Prof. Marek Kwasniewski (Poland), Prof. Cai Meifeng (China), Prof. Heinz Konietzky (Germany)

IAEG: Prof. A.K. Turner (USA) , Prof. Rafiq Azzam (Germany) , Prof. Hyeong-Dong Park (Korea)

### **2010-2014:**

Chair: Keith Turner (USA)

### **2015-2019:**

Chair: Anna Shidlovskaya (Russia)

Vice Chair: Scott Burns - IAEG (USA)

Secretary: Anna Timchenko - IAEG (Russia)

ISSMGE: Waldemar Hachich (Brazil), Michele Calvello (Italy),

IGS: Chungsik Yoo (Korea), Martin Ziegler (Germany), K. Rajagopal (India)

ISRM: Seokwon Jeon (Korea), Shuca Li (China), Tatiana Rotonda (Italy)

### **2019-2023:**

Chair: Dr Takeshi Katsumi (Japan)

IAEG: Prof. Scott Burns, (U.S.A.)

IGS: Prof. Chungsik Yoo (Korea); Prof. Martin Ziegler (Germany); Prof. K. Rajagopal (India)

ISRM: Prof. Seokwon JEON (Korea); Prof. Tatiana Rotonda (Italy); Prof. Vojkan Jovicic (Slovenia)

ISSMGE: Prof. Michele Calvello (Italy)